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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	tion No.	Applicant(s)		
Office Action Summary		10/772,4	478	LINKERT ET AL.		
		Examine	er	Art Unit		
		Jacob F.	Betit	2164		
Period fo	The MAILING DATE of this communi or Reply	cation appears on ti	he cover sheet with the	correspondence ad	ldress	
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MANDER OF THE MAN	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. tutory period will apply and will, by statute, cause the ap	THIS COMMUNICATIOn the control of th	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).		
Status						
2a)⊠	Responsive to communication(s) filed. This action is FINAL . Since this application is in condition for closed in accordance with the practice.	b) This action is or allowance excep	 non-final. ot for formal matters, pr		e merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-20 is/are pending in the alea (4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers The specification is objected to by the	e withdrawn from c				
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or the drawing(s) the correction is requ	be held in abeyance. Se ired if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 Cl	• •	
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	t (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P ^o nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	ГО-948)	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Oate		

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DETAILED ACTION

Remarks

1. In response to communications filed on 10 October 2007, claims 1-13 and 15-20 have been amended per the applicant's request. Claims 1-20 are presently pending in the application.

Claim Objections

- 2. Claims 1-14 are objected to because of the following informalities:
- 3. Claim 1 and many of its dependents use claim limitations that are recited passively or optionally recited. Although the claims are being rejected using art, the applicant is reminded "[I]anguage that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation." (See MPEP 2106 II. C.). The claims should be amended to remove limitations that could be interoperated optionally such as "adapted to receive", "hash generator being capable of", and "values being for communication to".

Claims 2-14 are objected to at least for the reason that they depend from objected to claim 1.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 103 that form the basis for the rejections under this section made in this Office action:

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5. The following is a quotation of 35 U.S.C. 102(e) which forms the basis for all

obviousness rejections set forth in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by <u>Yianilos et al.</u>
(U.S. patent application publication No. 2002/0029214 A1).

As to claim 1, <u>Yianilos et al.</u> teaches an apparatus for a radio communication system having a network part that maintains a network-copy of a first database containing data and a mobile node that maintains mobile-copy of the first database containing data, the data of the network-copy and data of the mobile-copy of the database, corresponding when the data in the network-copy of the first database and the data in the mobile-copy of the first database match one another, said apparatus for altering the data of at least one of the network-copy and the mobile-copy of the at least the first database to place the network-copy and the mobile-copy in match with each other, said apparatus comprising:

a hash generator embodied at the mobile node and [receives] data from the mobile-copy of the first database, said hash generator forming first and second types of hash values of data received by said hash generator, the first type of hash value being computed using a first technique, the second type of has value being computed using a second technique, the first type of hash being [communicated] to the network part to determine whether the network-copy and the mobile-copy are in match with one another, said second type of has value being computed and communicated to the network part, after said first type of hash value has been computed and communicated to the network part and used by the network part to determine that the network-

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copy and the mobile-copy are not in match with one another (see paragraph 0013, paragraph 0025, paragraph 0062 and paragraph 0067); and

a content retriever embodied at the mobile node, said content retriever retrieving data from the mobile-copy of the first database upon receipt of a first signal, the first signal originating from the network part and indicating that the network part's determination that the network-copy of the first database and the mobile-copy of the first database are out of match, the first signal being sent by the network part after the network part receives both the first type of hash value and the second type of hash value, data retrieved by said content retriever [is communicated] to the network part, and is used by the network part to synchronize the network-copy and the mobile-copy to each other (see paragraph 0062 and paragraph 0067).

As to claim 2, <u>Yianilos et al.</u> teaches wherein said hash generator generates the first type of hash values responsive to an external triggering event, occurrence of which is detectable at the mobile node (see paragraph 0083).

As to claim 3, <u>Yianilos et al.</u> teaches wherein said has generator generates the second type of hash values responsive to an external triggering event, occurrence of which is detectable at the mobile node (see paragraph 0083).

As to claim 4, <u>Yianilos et al.</u> teaches wherein said hash generator generates the first-type hashes upon detection of an external triggering event, the occurrence of which is [detected] at the

mobile node and wherein said hash generator generates the second-type hashes responsive to a

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network part determination that the first-type hashes, generated by said hash generator did not

match a first type of hash generated by the network part (see paragraph 0062 and paragraph

0067).

As to claim 5, <u>Yianilos et al.</u> teaches wherein the data maintained at the network-copy

and the mobile-copy of the first database is comprised of data records, each data record being

comprised of fields including at least a first key field and at least a first record field, and wherein

the second-type hashes [are generated] by said hash generator are formed of values of the at least

the first key field (see paragraph 0069).

As to claim 6, <u>Yianilos et al.</u> teaches wherein the determination that the network-copy

and the mobile-copy are out of match is made responsive to values of the second-type hashes

formed of the values of the at least the key field (see paragraph 0067 and see paragraph 0083).

As to claim 7, Yianilos et al. teaches wherein the data retrieved by said content retriever

comprises both the at least the first key field and the at least the first record field (see paragraph

0069).

As to claim 8, <u>Yianilos et al.</u> teaches wherein the network part comprises:

a determiner embodied at the network part and which [receives] hash values generated by said hash generator embodied at the mobile node, said determiner [that determines] whether the hash values generated by the hash generator at the mobile node, match with corresponding hash values generated at the network part (see paragraph 0083); and

a requestor coupled to said determiner [that receives] indications that a hash value from the mobile node does not match a corresponding hash value generated at the network part, said requester requesting from the mobile node, additional information associated with the mobile-copy of the first database (see paragraph 0067).

As to claim 9, <u>Yianilos et al.</u> teaches wherein the hash values generated at the network part include said first type of hash value and said second type of hash value (see paragraph 0062 and paragraph 0067).

As to claim 10, <u>Yianilos et al.</u> teaches wherein the additional information requested by said requestor comprises a request for the mobile node to deliver the second type of hash value to the comparator (see paragraph 0067).

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As to claim 11, <u>Yianilos et al.</u> teaches wherein the data maintained at the network-copy and the mobile-copy of the first database is comprised of data records and wherein the additional information requested by said requestor comprises a request for the mobile node to deliver at least portions of the data records (see paragraph 0067).

As to claim 12, <u>Yianilos et al.</u> teaches further comprising a comparator adapted to receive the values of the at least the portions of the data records responsive to the request therefor to the mobile node, said comparator for comparing the values with corresponding values of the network-copy of the at least the first database (see paragraphs 0081-0082).

As to claim 13, <u>Yianilos et al.</u> teaches further comprising a database value updater coupled to said comparator, said database value updater being responsive to comparisons made by said comparator to alter at least one data record of a selected one of the mobile-copy and the network-copy of the at least the first database (see paragraph 0067).

As to claim 14, <u>Yianilos et al.</u> teaches wherein said database value updater operates pursuant to a selected conflict resolution protocol (see paragraph 0082).

As to claim 15, <u>Yianilos et al.</u> teaches a method for a radio communication system having a network part that maintains a network-copy of a first database and a mobile node that maintains a mobile-copy of a first database, the network-copy and the mobile-copy of the first database corresponding to each other when data in the network-copy and data in the mobile-copy of the first database [match] one another (previously stated as prior art), said method for synchronizing the network copy of the first database with the mobile copy of the first database said method comprising:

sending a first hash value that is calculated from a first portion of the first database using a first technique from the mobile node to the network part, the first hash value representative of the mobile-copy of the first database (see paragraph 0013, paragraph 0025, paragraph 0062, and paragraph 0067);

comparing, at the network part, the first hash value received from the mobile node, to a second hash value calculated at the network part from a first portion of the network copy of the first database using the first technique, and requesting from the mobile node, a third hash value that is calculated at the mobile node from the mobile copy of the first database using a second technique (see paragraph 0062 and paragraph 0067); and

at the network part, comparing the third hash value received form the mobile to a fourth hash value calculated at the network part form the network copy of the first database using said second technique; whereby the network copy of the first database and the mobile node copy of the first database are determined to be different form each other when the first and second hash

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values are different form each other or when the third and fourth hash values are different from each other (see paragraph 0062 and paragraph 0067).

As to claim 16, <u>Yianilos et al.</u> teaches wherein the third hash value is calculated from the first portion of the mobile node copy of the first database and wherein the fourth hash value is calculated from a corresponding first portion of the network copy of the first database (see paragraph 0062 and paragraph 0067).

As to claim 17, <u>Yianilos et al.</u> teaches further comprising the operations of:

requesting at least a portion of the mobile-copy of the first database [that is] transimitted from the mobile node to the network in response to a comparison of the third hash value to the fourth hash value (see paragraph 0067).

As to claim 18, <u>Yianilos et al.</u> teaches further comprising the operations of:

delivering a portion of the mobile-copy to the network part (see paragraph 0067),

comparing the portion of the mobile copy delivered to the network part with a corresponding portion of the network-copy of the first database (see paragraph 0067 and paragraph 0083), and

overwriting portions of the network-copy of the first database and the mobile-copy of the database responsive to comparisons made during said operation of comparing the portions of the mobile-copy to the network copy (see paragraph 0067).

As to claim 19, <u>Yianilos et al.</u> teaches wherein a selected one of the network-copy and the mobile-copy are overwritten according to a conflict resolution scheme (see paragraph 0062 and see paragraph 0067).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Yianilos et al.</u>

As to claim 20, <u>Yianilos et al.</u> does not distinctly disclose further comprising the operation of creating a change-history by indicating which portions of the database were overwritten.

However, it was well known to one having ordinary skill in the art at the time of the invention to create a change-history of databases as evidenced by paragraph 0012 of <u>Yianilos et al.</u> Therefore while <u>Yianilos et al.</u> employs techniques that do not require creating a change-

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history it would be obvious to one of ordinary skill in the art to create a log so that old revisions can be recovered.

Response to Arguments

9. Applicant's arguments filed 10 October 2007 have been fully considered but they are not persuasive.

In response to the applicant's arguments that Yianilos does not show or suggest using two different hash techniques", the arguments have been considered, but are not deemed persuasive. Yianilos teaches each round of synchronization successively smaller ranges of keywords. Each range of records are summarized and compared to find if the summaries match. Hashing a smaller range of records would be a different hashing technique than hashing a larger range of records. The applicant states "a summary is not necessarily a hash value", however, paragraph 0081 states "the summary of a set of records consists of the number and a fixed size digest of records" a digest is a hash (abstract). The applicant states "creating different summaries of different records is not the same as creating different hash values from the same records by using different hashing techniques." However the applicant's claim does not require creating different hash values from the same records. The applicant's claim 15 doesn't even require the same data to be hashed let alone hashing of all of the same records in both techniques. While hashing of the same data appears to be required in claim 1, hashing that data in small sections is a different technique involved in hashing data than hashing the same data in larch sections. Therefore, Yianilos is still deemed to anticipate the claims.

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Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob F. Betit whose telephone number is (571)272-4075. The examiner can normally be reached on Monday through Friday 10:30 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

ifb

6 May 2008

/Charles Rones/

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Supervisory Patent Examiner, Art Unit 2164